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(11) **EP 1 306 072 A3**(12) **EUROPEAN PATENT APPLICATION**

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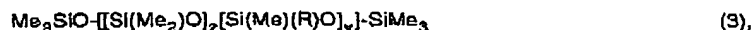
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(54) **Homogeneous mixtures of silicone oils and organic oils**

(57) The invention relates to mixtures comprising

- a) at least one silicone oil,  
 b) at least one organic oil and  
 c) at least one organomodified silicone chosen from the formulae (1), (2) or (3)



wherein R is an alkyl or alkenyl radical having 8 to 40 carbon atoms, a phenyl radical, an alkylaryl radical having 7 to 30 carbon atoms or an arylalkyl radical having 7 to 30 carbon atoms and x is an integer between 1 and 10, y is an integer between 1 and 10 and v, z are integers between 1 and 100, with the proviso that the silicone oils a) are not organomodified silicones c) according to the formulae (1), (2) or (3).

The addition of the organomodified silicones c) to the mixtures permits the compatibilization of the silicone oils a) and organic oils b) and thus the preparation of homogeneous, clear mixtures.

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## EUROPEAN SEARCH REPORT

Application Number  
EP 02 02 3437

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X	EP 0 862 913 A (OREAL) 9 September 1998 (1998-09-09) * page 2, line 26-29 * * page 3, line 3-5; claims 1,3; examples 1-3 *	1-10	
X	US 6 184 277 B1 (BARA ISABELLE) 6 February 2001 (2001-02-06) * column 1, line 42-58 * * column 3, line 55 - column 4, line 22; claims 1,3,4,7; examples 1,2 *	1-10	
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The present search report has been drawn up for all claims			
Place of search MUNICH		Date of completion of the search 17 April 2003	Examiner Vayssié, S
CATEGORY OF CITED DOCUMENTS X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document		T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons A : member of the same patent family, corresponding document	

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The present search report has been drawn up for all claims			TECHNICAL FIELDS SEARCHED (Int. Cl. 7)
Place of search MUNICH		Date of completion of the search 17 April 2003	Examiner Vayssié, S
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## EUROPEAN SEARCH REPORT

Application Number  
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			TECHNICAL FIELDS SEARCHED (Incl. 7)
The present search report has been drawn up for all claims			
Place of search MUNICH		Date of completion of the search 17 April 2003	Examiner Vayssié, S
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**CLAIMS INCURRING FEES**

The present European patent application comprised at the time of filing more than ten claims.

- ☐ Only part of the claims have been paid within the prescribed time limit. The present European search report has been drawn up for the first ten claims and for those claims for which claims fees have been paid, namely claim(s):
- ☐ No claims fees have been paid within the prescribed time limit. The present European search report has been drawn up for the first ten claims.

**LACK OF UNITY OF INVENTION**

The Search Division considers that the present European patent application does not comply with the requirements of unity of invention and relates to several inventions or groups of inventions, namely:

see sheet B

- ☒ All further search fees have been paid within the fixed time limit. The present European search report has been drawn up for all claims.
- ☐ As all searchable claims could be searched without effort justifying an additional fee, the Search Division did not invite payment of any additional fee.
- ☐ Only part of the further search fees have been paid within the fixed time limit. The present European search report has been drawn up for those parts of the European patent application which relate to the inventions in respect of which search fees have been paid, namely claims:
- ☐ None of the further search fees have been paid within the fixed time limit. The present European search report has been drawn up for those parts of the European patent application which relate to the invention first mentioned in the claims, namely claims:

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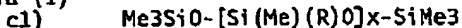
European Patent  
OfficeLACK OF UNITY OF INVENTION  
SHEET BApplication Number  
EP 02 02 3437

The Search Division considers that the present European patent application does not comply with the requirements of unity of invention and relates to several inventions or groups of inventions, namely:

## 1. Claims: 1-10 (partly)

a mixture comprising

- a) at least one silicone oil
- b) at least one organic oil
- c) at least one organomodified silicone chosen from the formula (1)



, wherein

atoms, R is an alkyl or alkenyl radical having 6-40 carbon

a phenyl radical, an alkylaryl radical having 7-30 carbon atoms or an arylalkyl radical having 7-30 carbon atoms

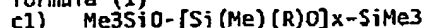
x is an integer between 1 and 10

y is an integer between 1 and 10

v, z are integers between 1 and 100

with the proviso that the silicone oils a) are not organomodified silicones c) according to the formulae (1), (2) or (3).

the composition comprising this mixture (product Claims 1-9) and the use of an organomodified silicone chosen from the formula (1)



, wherein

atoms, R is an alkyl or alkenyl radical having 6-40 carbon

a phenyl radical, an alkylaryl radical having 7-30 carbon atoms or an arylalkyl radical having 7-30 carbon atoms

x is an integer between 1 and 10

y is an integer between 1 and 10

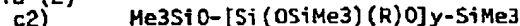
v, z are integers between 1 and 100

for the compatibilization of silicone oils a) and organic oils b) in mixtures comprising silicone oils a) and organic oils b) (use Claim 10).

## 2. Claims: 1-10 (partly)

a mixture comprising

- a) at least one silicone oil
- b) at least one organic oil
- c) at least one organomodified silicone chosen from the formula (2)



, wherein

atoms, R is an alkyl or alkenyl radical having 6-40 carbon

a phenyl radical, an alkylaryl radical having 7-30 carbon atoms or an arylalkyl radical having 7-30 carbon atoms

x is an integer between 1 and 10

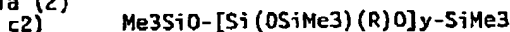
y is an integer between 1 and 10

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European Patent  
OfficeLACK OF UNITY OF INVENTION  
SHEET BApplication Number  
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The Search Division considers that the present European patent application does not comply with the requirements of unity of invention and relates to several inventions or groups of inventions, namely:

v, z are integers between 1 and 100  
with the proviso that the silicone oils a) are not  
organomodified silicones c) according to the formulae (1),  
(2) or (3),  
the composition comprising this mixture (product Claims 1-9)  
and the use of an organomodified silicone chosen from the  
formula (2)



wherein

atoms, R is an alkyl or alkenyl radical having 6-40 carbon

a phenyl radical, an alkylaryl radical having 7-30 carbon  
atoms or an arylalkyl radical having 7-30 carbon atoms

x is an integer between 1 and 10

y is an integer between 1 and 10

v, z are integers between 1 and 100

for the compatibilization of silicone oils a) and organic  
oils b) in mixtures comprising silicone oils a) and organic  
oils b) (use Claim 10).

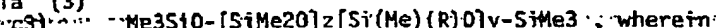
### 3. Claims: 1-10 (partly)

a mixture comprising

a) at least one silicone oil

b) at least one organic oil

c) at least one organomodified silicone chosen from the  
formula (3)



R is an alkyl or alkenyl radical having 6-40 carbon

atoms,

a phenyl radical, an alkylaryl radical having 7-30 carbon  
atoms or an arylalkyl radical having 7-30 carbon atoms

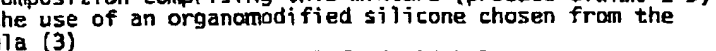
x is an integer between 1 and 10

y is an integer between 1 and 10

v, z are integers between 1 and 100

with the proviso that the silicone oils a) are not  
organomodified silicones c) according to the formulae (1),  
(2) or (3),

the composition comprising this mixture (product Claims 1-9)  
and the use of an organomodified silicone chosen from the  
formula (3)



R is an alkyl or alkenyl radical having 6-40 carbon

atoms,

a phenyl radical, an alkylaryl radical having 7-30 carbon  
atoms or an arylalkyl radical having 7-30 carbon atoms

x is an integer between 1 and 10

y is an integer between 1 and 10

v, z are integers between 1 and 100

for the compatibilization of silicone oils a) and organic

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LACK OF UNITY OF INVENTION  
SHEET B

Application Number  
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The Search Division considers that the present European patent application does not comply with the requirements of unity of invention and relates to several inventions or groups of inventions, namely:

oils b) in mixtures comprising silicone oils a) and organic  
oils b) (use Claim 10).



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- ☐ **GRAY SCALE DOCUMENTS**
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